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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,796	03/26/2004	Ned Emidio Cipollini	67097-020;eh-11085	9784
26096 7590 03/23/2007 CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD			EXAMINER	
			PHASGE, ARUN S	
SUITE 350 BIRMINGHAM, MI 48009			ART UNIT	PAPER NUMBER
	,		1753	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

·						
	Application No.	Applicant(s)				
	10/810,796	CIPOLLINI, NED EMIDIO				
Office Action Summary	Examiner	Art Unit				
	Arun S. Phasge	1753				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by state the provision of the provision of the maximum statutory perions are provided by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a solution of will apply and will expire SIX (6) MONUTE, cause the application to become Alexandre 1.136(a).	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22	February 2007.					
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application	on.	·				
4a) Of the above claim(s) is/are withdo		•				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	l/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
10) The drawing(s) filed on is/are: a) a		by the Examiner.				
Applicant may not request that any objection to the	• • •	•				
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreignal ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
1. Certified copies of the priority docume	ents have been received.					
Certified copies of the priority docume	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the pr	iority documents have been	received in this National Stage				
application from the International Bure						
* See the attached detailed Office action for a li	st of the certified copies not	received.				
Attachment(c)						
Attachment(s) 1) Notice of References Cited (PTO-892)	A) ☐ Intended:	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of I	nformal Patent Application				

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DETAILED ACTION

The indicated allowability of claims 7-20 is withdrawn in view of the newly discovered reference(s). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reznik, U.S. Patent 5951839 in view of Spadaccini et al. (Spadaccini), U.S. Patent 6,315,815 and Isley, U.S. Patent 3,933,638.

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The Reznik patent teaches the electrochemical conversion system for treating a fuel by reducing the oxidation-reduction potential at the cathode (see col. 6, lines 48-54 and col. 8, lines 12-22). The reference further discloses the oxidation followed by the reduction as claimed, wherein the electrodes are shaped similar and placed to contact the fuel (see col. 8, lines 12-22).

The Reznik patent, while disclosing the formation of hydrogen at the cathode does not disclose the mechanism by which the fuel redox potential is reduced, i.e., the combination of hydrogen with oxygen to form water. The Spadaccini patent is cited to show the presence of oxygen in fuel supports oxidation reactions, i.e., the higher redox potential.

Therefore, one having ordinary skill in the art would recognize that the results obtained in the Reznik patent, i.e. the reduction of the redox potential would have been accomplished by a similar mechanism as recited in the present invention.

The Reznik patent further fails to teach the removal of water from the fuel.

The Isley patent is cited to teach the need to remove water from fuel before use of the fuel (see claim 2).

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Consequently, the invention as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the disclosure of the Reznik patent to remove the water formed therein, because the Isley patent teaches the removal of water from fuel to obtain a purified fuel.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun 5. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Arun S. Phasge Primary Examiner Art Unit 1753